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Si aucun titre n'est indiqué se référer à la description.)

System for providing a personalized TV channel

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System for providing a personalized TV channel

The invention relates to a system and method for providing a personalized TV channel.

The invention further relates to a device and a server entity for use in the system.

5 The invention further relates to a method of managing the system.

The invention further relates to a computer program product for providing a personalized TV channel.

10 The well known television system (TV) provides many TV channels giving entertainment for users by showing movies, news, shows, quizzes, etc. Usually content is intended to be watched actively. Further the TV provides music channels which more or less continuously show music clips. Many people use the TV not only for actively watching, but leave the TV switched on for background use while they are doing other things. However the
15 content of general TV channels is not very suitable for the background use of the TV.

Therefore it is an object of the invention to provide a personalized TV channel. According to a first aspect of the invention the object is achieved with a system for
20 providing a personalized TV channel to at least one of a number of users, which system comprises a server entity, which entity is coupled to a network, the entity comprising a network unit for receiving real time information, user parameters and user commands via the network, generation means for generating the personalized TV channel for said at least one user in response to the user parameters and user commands by selectively including in the
25 personalized TV channel real time information from further users; and a device for said at least one user, the device comprising an input unit for receiving the real time information from a capture unit, which real time information comprises video information related to the user, in particular video information from a web cam, storage means for storing the user parameters identifying said at least one user, control means for receiving the user commands

for controlling the contents of the personalized TV channel, a network unit for coupling the device to a server entity via a network for transmitting the real time information and the user parameters and user commands, and generating means for generating an output signal for display on a TV display based on the personalized TV channel. According to a second aspect
5 of the invention the object is achieved with a device as described with the system above. According to a third aspect of the invention the object is achieved with server entity as described with the system above. According to a fourth aspect of the invention the object is achieved with a method of managing the system for providing a personalized TV channel, the method comprising managing a server entity by providing user registration for users which
10 are allowed to connect to the server entity via the device for providing a personalized TV channel to the user, and generating the user parameters identifying the user for user registration and for storage in the device.

The effect is that the user is part of a group of registered users and has the availability of the personalized TV channel having a content based on real time information
15 made available by other users. The user controls the content of the personalized TV channel by issuing the user commands, which commands are interpreted by the server entity for constituting the personalized TV channel from real time information provided by other users of the system. The effect is that the TV can be used in an original way for providing companionship by switching to the personalized TV channel provided for a specific user. The
20 availability of content for the personalized TV channel is based on a mutual understanding between users to make available real time information from the respective capture units.

The invention is also based on the following recognition. The use of capture units, usually called web cams, is known from the internet. For example DE 100 34 192 shows a security system using remote cameras connected to a computer via e-mail. However,
25 for watching the real time information of a web cam the user is required to have a computer and so-called browser software, and needs to search the internet to find the location of a web cam. The use of the computer is interactive, and requires user knowledge for operating the browser via a standard computer interface, which computer is relatively complex and expensive. The inventor has seen that the requirements and the type of use of the computer
30 are incompatible with the requirements of the TV user. In particular the control of the content of the personalized TV channel has been made suitable for the TV user by not applying the computer interface and browser software, but by using specific user commands and directly transferring the user commands to the server entity to be executed. Hence the device can be simple and inexpensive, and the server entity is shared by many users and has the complex

function of executing the user commands for constituting the personalized TV channel for each user that is connected to the server.

5 An embodiment of the device comprises means for receiving server control information, in particular indicating that a further user is receiving the real time information from the user. This has the advantage that the user can be made aware of events outside his environment, e.g. that the further user is watching and that communication may be started between the users.

10 In an embodiment of the device the control means include sound means for controlling sound to accompany the personalized TV channel, in particular selecting sound from a TV or radio station. In an embodiment of the device the sound means are arranged for adding sound of a real time source from which source real time information is included in the personalized TV channel or mixing said sound with sound from a TV or radio station. This has the advantage that the sound for the personalized TV channel can be adapted to the requirements of the user, e.g. for watching a normal TV channel at the same time as the other user and having the personalized TV channel displayed and audible also.

15 Further preferred embodiments of the device and server entity according to the invention are given in the further claims.

20 These and other aspects of the invention will be apparent from and elucidated further with reference to the embodiments described by way of example in the following description and with reference to the accompanying drawings, in which

Fig. 1 shows a network, a server and user devices,
Fig. 2a and 2b show relationship information,
25 Fig. 3 shows a closed relationship network,
Fig. 4a, 4b and 4c show visual structures for a personalized channel,
Fig. 5 shows a segment of a visual structure,
Fig. 6 shows a user command unit,
Fig. 7 shows user command functions, and
30 Fig. 8a, 8b, 8c and 8d show alternative sets of user command buttons.

In the Figures, elements which correspond to elements already described have the same reference numerals.

Fig. 1 shows a network, a server and user devices. The Figure schematically shows a network 14, e.g. the internet, and a number of devices connected via the network. A first user device 10 for providing a personalized TV channel to a user is coupled to the network. The device 10 has an input unit 24 for receiving real time information from a capture unit 11, which real time information comprises video information related to the user. The real time information may include sound, or further parameters detected like room temperature. A suitable capture unit for generating video information is a web cam. The capture unit may also have a microphone for capturing sound, and a switch for controlling the microphone. In an embodiment the input unit 24 provides a wireless connection to the capture unit. The input unit 24 may in addition have a detector for detecting the presence of sound, and provide the detection result to the user control unit 22 for further control of the personalized TV channel. The device 10 further has a memory 25 for storing user parameters identifying the user, a control unit 22 for receiving user commands for controlling the contents of the personalized channel. The user commands may be entered via a remote control unit 12. The device has a network unit 21 for coupling the device to a server entity via the network 14 for transmitting the real time information and the user parameters and user commands and for receiving the personalized channel, and a generating unit 23 for generating an output signal for display on a display 13 based on the personalized channel. Further user devices 16, 17, 18 are also coupled via the network 14. The further user devices are similar to the first user device 10. Each user has a display unit and personal parameters for connecting to the network. In an embodiment one user device has input circuitry for connecting several capture units, and/or output circuitry for generating several output signals, whereas the memory and control is arranged for handling the personal parameters and the personalized TV channel for several users. The user device can be implemented as a separate 'set top' box to be connected to the TV, or may be integrated with the other TV functions, e.g. constituting a complete TV set including a module for the personalized TV channel.

A server entity 15 is also coupled via the network 14 for providing a personalized TV channel for each of a number of users, as far as the respective user is actively connected and requires such a personalized channel. The server entity 15 has a network unit 26 for receiving real time information, user parameters and user commands via the network and for transmitting the personalized channel to the user via the network, and a generation unit 27 for generating the personalized channel for said at least one user in response to the user parameters and user commands by selectively including in the personalized channel real time information from further users. In an embodiment of the

server the generation unit 27 comprises a visual structure unit for generating a visual structure as described below with reference to Figures 4 and 5.

5 In an embodiment of the system the visual structure itself is generated in the user device generating unit 23. The server then only supplies the visual information for display in the user elements. In an embodiment the server facilitates setting up a link from the user's device via the network to the respective other user devices. The video and/or audio information is transmitted via the link directly between the user devices. The user device may request video information from user elements that are displayed relatively large in the visual structure more often than video information for user elements that are displayed relatively small. In addition the user device may request some video information from the server, and request other video information via a direct link to the other user, in particular for displaying a user element that has to be actively displayed on a large area of the display screen and has the attention of the user.

15 In an embodiment of the system the functionality of the server entity is implemented in the user devices. The server entity within each user device performs the functions of maintaining the relationship information for the user of that device, and maintaining some further relationship information for constructing the personalized visual channel and connecting to other user devices. A network of relationship information is constructed by the server entity within the user device, and extended by connecting to other server entities in other user devices and exchanging relationship information. In an embodiment the system is implemented in a software program running on a suitably equipped PC, the PC having an input unit for connecting a video camera (web cam) and a network unit.

25 Relationship information for constituting the personalized visual channel as described below with reference to Figures 2 and 3 may be maintained in the user device, or at least part of the relationship information may be maintained in the server. In an embodiment the server comprises a relationship unit 28 for maintaining relationship information and calculating relational distance. Relationship information may be entered by the users themselves via the user command unit 22. In addition a system operator can enter and maintain the relationship information directly on the server 15. Relational distance calculation is performed in relationship unit 28 according to the parameters as discussed below. A suitable relationship distance is based on the circle of acquaintances of a user to be set as the first degree, and the acquaintances of each acquaintance as a second degree, etc. It is believed that in six degrees substantially all users in the world can be reached. Generation

unit 27 generates the personalized channel using real time information received from further users selected in dependence on said transmitted user parameters and user commands.

Creating the content of the personalized TV channel is described in detail below with reference to Figures 2, 3, 4 and 5. It is to be noted that the personalized TV channel is created individually for each user requesting the service, although parts of the image of different personalized channels may be derived from the same source, and therefore correspond. Each individually created channel is transferred via the network to the respective user only, e.g. by using well known transmission techniques such as internet.

Basically the system is a new network connecting users via images provided by the users themselves. What the users show is up to them, it could be any thing ranging from themselves, their gardens, their pets, or just their blank walls. The system gives users the chance of just showing something of themselves, and seeing other users. The fact that one can see the personalized TV channel on TV makes it something relaxed and informal. In a first example a completely ambient and passive use is foreseen. A girl is just sitting in her living room and reading. The personalized channel on her TV shows a different room, and later a girlfriend appears in that room.

In a second example the system is used as a new communication device. The girl is again reading in her living room. The user device is arranged for signaling that another user is connecting, e.g. by a visual signal on the display or an audio signal. The girl switches the sound on, and communicates with the newly connected user. They decide to watch the TV channel, and have a small 'picture-in-picture' frame still showing each other in the personalized channel.

Basic functions for managing the system of personalized channels are the following. Logging in-out of user requires that the server knows the identity of the user. A new user gets an ID-number, for example when a product is bought, or the user starts participating by subscribing. The server keeps status information, for example knowing when a user is logged in, or to whom a user is connected to. In an embodiment a user has to make video information available before he can receive the personalized channel, i.e. one can't be online 'invisible'. The server maintains relationship information, e.g. a preference list of friends. In an embodiment the first degree is two-sided; one is automatically in each other's first degree. Alternatively users are in each others first degree when both enter each others ID-number. The server also provides searching functions for the user. For example a user can zap around in different levels, but not search specifically (like searching for names or exact addresses). In an embodiment searching is performed by an automatic zap. The speed of the

zap function may depend on what layer one is in (layer one, the closest to the user, is the slowest, layer six is the fastest). Further a user may be searched by direct parameters like the ID-number.

Fig. 2a and 2b show relationship information. Figure 2a shows a home element 30 called 'me' representing the user. The first level of relationship is indicated by first degree user elements 31. The relationship of the first degree user elements 31 to second degree user elements 32 is indicated one level further away from the home element 30. Third degree user elements 33 are again one level further away from the home element 30. As shown the users make living communities by putting their friends and family in the first degree, and through them they can reach other users. It is noted that using such a network of relations in six levels substantially all users of the system will be reachable. Figure 2b shows a relationship diagram of a different type of users, based on commercial and entertainment interest of the user, or the mood of a user at a specific moment. The user can get access to such an interest group via an access portal such as indicated on the second level 34, i.e. commercial entity users. The third level users 35 are based on the (commercial) interest parameter of the respective second level interest oriented users 34. In an embodiment users would have to pay to get into certain places, or would enter via advertisements, so it is known what the most popular places are. Hence advertisers know how to find spots where they can reach people to sell products. For example, the personalized channel could become commercial with certain businesses opening the door to places where the user otherwise would never come as shown in Figure 2b. The Figure shows examples of users like UvA (University of Amsterdam), Mazzo (club in Amsterdam), or Diesel (a clothes brand). In an embodiment other navigation systems as described below are made available, so the user can choose one system depending on his/or needs or mood. The navigation systems could also become more complex; maybe learning what the user likes, or depending on sound and emotions in the room.

Fig. 3 shows a closed relationship network. The home element 30 represents the user himself / herself. The first level of relationship has user elements 36, 37, 38 and is a closed community by requiring mutual relationships only, and not allowing access to other related elements via an intermediate user element of the first level. In an embodiment the relationship between two elements 36, 37 on the first level is made visible for the user 30. Hence living communities are formed and the visual channel may be used as a video-phone-like communication tool. A user would create his own 'island' with friends, and have no relation to the people they are connected to. In the figure Kim is connected to friend 'G', who

is also connected to Peter, though, no second grade connection is made trough 'G' between them.

Fig. 4 shows visual structures for a personalized channel. Figure 4a shows a home element 40 as a central element of the visual structure 45. Around the home element an annular area represents the first level of relational distance to the user, and the first level is subdivided in segments. A segment is showing a user element 41 on the first level by displaying some visual information provided by that user. A second adjacent annular area is more outward and displays user elements 42 of the second level of relational distance. Third level user elements 43 and a fourth level user elements 44 are shown in radially more outward laying position. The fifth and sixth annular areas 46 are very small, individual user elements can hardly be seen on these levels in this view. In an embodiment a segment of a higher level annular area is showing the user elements which have a relation to the home element via a user element in a corresponding intermediate more inward laying annular area. In a practical embodiment the visual structure is filled as follows. The structure is divided into 6 rings around a small circle 40. The first ring is divided into 4 parts which stands for 4 'friends'. The second ring contains the friend's friends, so this ring is divided in much more parts, say that every friend has 4 friends; then this ring contains 16 images. All the other rings are built up in the same way and the connections are made in the same way. The 4th, 5th and the 6th ring are all more or less the same. The user probably doesn't know the people in it; the only difference is that here is an exponentially growing number of images in every following ring.

Figure 4b shows a visual structure similar to Figure 4a, but the user has zoomed in on a different level. The width of the annular area 48 of the first level is much smaller than in Figure 4a, while the width of annular area 47 of the second level has increased. In the embodiment the width of the annular area is determined by user commands, in particular by the user having indicated that he has selected that level of relational distance. Figure 4c shows a visual structure similar to Figure 4a, but the user has zoomed in on the third level. Hence the third level area 49 is expanded and the first and second level areas are collapsed.

In an embodiment the annular areas constitute a disc and are filled with user elements as follows. The available web cams are placed around the smallest circle; which corresponds with the home of the user. When this circle (basically level 0) is selected and zoomed in, the user can see what images are coming from his/her web cam. The disc is changing continuously. The first cause for the changing appearance is the fact that not


everybody is 'connected' all the time and if someone isn't connected his/her user element is not shown. This means a change of one or two people in the first level has big consequences in the layout of the disc, and in the reach one has of connected people (one reaches far more people with 8 people in the first degree than with 3 people in the first degree). In an
5 embodiment the device is arranged for showing a higher level of user elements including user elements based on the relationship with a user on a lower level that is not connected himself. Such a view would always show a larger number of user elements. The user may have the option of selecting such expanded view. Next to that the  changes if the user changes degrees. The selected degree grows bigger so one can get a better view on what is happening
10 in the selected image. The selected images is also bigger than the other images in the degree, otherwise the view would be so narrow that still nothing could be seen. The extra space for this bigger view is accomplished by making the 'lower degrees' smaller.

Fig. 5 shows a segment of a visual structure. The home element 40 is shown at the bottom of the display. The first level of user elements 41 is shown adjacently, and part of
15 the second level of user elements 42 is shown in the upper part of the display. The middle part of the display shows an enlarged picture of a selected user element 50 of the first level. By applying search and zoom commands the user indicated that the visual structure has to be enlarged. This view is an enlarged part of the disc described above with Figure 4, and the user can get a more informative look at certain places.

20 In embodiments below the relationship information and navigation through the visual structure is based on further user information. In a first embodiment geographical navigation is used. Several user parameters may be included in the relational distance calculation and levels may for example be based on: the connected people with the same area code, the connected people in the same city; the connected people in the same country, the
25 connected people in the same continent; the connected people in the world. In a second embodiment called road-trip the geographical information is used to virtually make a trip. A user could pass all the connected houses on his way to -for example- Moscow, or Sydney. A user could even have connected cruise ships or trains to takes one trough deserted places or the ocean. As most people take planes to their destinations this road trip could give them a bit
30 more 'travel feeling'. In a third embodiment relational distance is based on choice criteria on people, for example age, sex, hair color, health condition, pets, location, etc. The user could zap from bus stops in Japan to Scotland to New York City to a little village in Spain. In a fourth embodiment navigation is based on circumstantial parameters, for example temperature, or light intensity. The user could navigate by such factors, e.g. go to places with

the same temperature; or go to a place with a slightly higher temperature every step until the warmest place is reached. The user could also start with a pitch-black scene and go to a slightly lighter place step by step, until one has reached the place with the highest light intensity, and then go back. An automatic zap function could make such a cycle in 24 hours.

- 5 Further the navigation can be dependent on movement; if nothing is moving in a scene of 30 seconds it zaps away to something else. What the user gets next may be random. Navigation could also be dependent on movement in the user's room. For example a user paying attention usually will be sitting still, so there is little movement in the room. Then the selected user element will not change. If there is movement in the room the personalized
- 10 channel will zap around until it attracts the user's attention.

- In an embodiment of the device the generating unit 23 for generating an output signal for display has a unit for combining locally stored visual information with visual information provided by the server entity. Hence the personalized TV channel displayed for the user is constituted by the combination. For example a map of the relevant area, locally
- 15 stored in the user device, is used as background image for a visual structure provided by the server using navigation based on geographical information.

- Fig. 6 shows a user command unit. The unit is implemented as a rectangular cabinet 61, having numerical buttons 62, directional button 63 and some special function buttons 64. Alternatively other shapes or types of user control buttons can be used. In
- 20 particular the control of the personalized channel is executed using the buttons. The 'MOVE' button is used for navigating through the various visual sources within the personalized channel. For example the wheel-type visual structure described above with Figures 4 and 5 can be made to rotate visually. The rotating can be stopped by pushing the MOVE button again.

- 25 Fig. 7 schematically shows user command functions. The total set of user control functions 71 (remote-control buttons) is shown on the left. As a functional subdivision to the right the special functions 72 (view, menu, move, arrows) corresponding to the special function buttons 64 and the directional buttons 63 are shown. A further subdivision shows detailed functions 73 (over all, zoom in, full screen, disconnect, connect,
- 30 private, sound, move, stop, right, left, down, up). The view button zooms in on the overview; in particular it zooms in around the selected image. One has to press the same button once, twice or three times to see these views. The connect function connects new 'friends', and the disconnect function disconnects old ones. The numerical buttons 62 on the remote control are also needed for selecting the person to be (dis-)connected. The private function only connects

to the source of a selected image; other users cannot see the user. The move function sets the wheel starts to turn and provides automatically change of the selected images. If the user presses the button the visual structure moves; press it again and the wheel stops. The up and down arrow buttons change the layers in the wheel (up is level up, down is level down). The left and right buttons allow one to change images within the layers.

The sound function offers a choice for the sound that the user wants for the personalized TV channel. In different embodiments the sound function can be executed as follows. The visual channel without sound offers less companionship, and with sound it invades the privacy. The sound function is to either switch on the microphone on the camera or to not switch it on. When the microphone is switched on there is no problem; the user apparently doesn't have a problem with the privacy. When the microphone is switched off; there is no sound [and less company]. There are a number of possibilities that could take away that silence. For example: put the sound of another TV channel on, e.g. sound from MTV or CNN; scramble the noise so the user can't understand what is said but still hears something; put the sound from a local radio station on; the user come up with something from an external source. In an embodiment the users in the first degree have the option to overrule the sound selected, and call for the people through the selected sound. This could give a surprising and spontaneous effect.

Fig. 8 shows alternative user command buttons. Figure 8a shows a set of user buttons having a central zoom button 81. The directional buttons (level up, level down, left, right) are positioned around the central zoom button. The special function buttons (menu, move) positioned below the others. The zoom button corresponds with the selected image, when this button is pushed it zooms in on the selected image. The left, right, above and beneath button are organized in a way that corresponds with the visual structure on the display. The menu and move buttons are smaller, so the user feels the difference and the chance of accidentally pushing a wrong button is smaller. Figure 8b shows a rotational button 82 and centered therein a zoom button 81. Above and beneath buttons 'level up' and 'level down' are for changing degrees. The middle button is for zooming in. Around the zoom button there is the disc 82 with which the user can 'zap' between the images in a layer. The buttons 'move-stop' and 'menu' are positioned to the sides and are for the menu and move functions, they are placed a bit further from the center so they are not accidentally pushed. Figure 8c shows a game like user control unit. The unit is a maze 83 containing a ball and operates like a game; if the user rolls the ball into the next part on the left the visual structure goes one image to the left. The menu, the move and other function buttons are placed on a

different location (not shown), e.g. on a separate remote control unit like the one shown in Figure 7. Figure 8d shows a ball shaped user control unit. A ball 84 has a second ball 85 inside the larger ball 84. The small ball 85 has a grid on it which corresponds with the visual structure on the display; the bigger ball 84 has a selector on it. By turning the ball the user can select new images.

Although the invention has been mainly explained by embodiments using a visual personalized channel on a home TV system, the invention is also suitable for portable TV systems, e.g. in a car. Further the server entity can be implemented on a computer system by a computer program for performing the required functions. It is noted, that in this document the word 'comprising' does not exclude the presence of other elements or steps than those listed and the word 'a' or 'an' preceding an element does not exclude the presence of a plurality of such elements, that any reference signs do not limit the scope of the claims, that the invention may be implemented by means of both hardware and software, and that several 'means' may be represented by the same item of hardware. Further, the scope of the invention is not limited to the embodiments, and the invention lies in each and every novel feature or combination of features described above.

CLAIMS:

1. System for providing a personalized TV channel to at least one of a number of users, which system comprises:

a server entity, which entity is connectable to a network, the entity comprising

- 5 - a network unit for receiving real time information, user parameters and user commands via the network,
- generation means for generating the personalized TV channel for said at least one user in response to the user parameters and user commands by selectively including in the personalized TV channel real time information from further users; and

a device for said at least one user, the device comprising

- 10 - an input unit for receiving the real time information from a capture unit, which real time information comprises video information related to the user,
- storage means for storing the user parameters identifying said at least one user,
- control means for receiving the user commands for controlling the contents of the personalized TV channel,
- 15 - a network unit for coupling the device to a server entity via a network for transmitting the real time information and the user parameters and user commands, and
- generating means for generating an output signal for display on a TV display based on the personalized TV channel.

20 2. Device for providing a personalized TV channel to a user for use in the system of claim 1, the device comprising

- an input unit for receiving real time information from a capture unit, which real time information comprises video information related to the user,
- storage means for storing user parameters identifying the user,
- 25 - control means for receiving user commands for controlling the contents of the personalized TV channel,
- a network unit for coupling the device to a network for transmitting the real time information and the user parameters and user commands, the personalized TV channel

comprising real time information received from further users selected in dependence on said transmitted user parameters and user commands, and

- generating means for generating an output signal for display on a TV display based on the personalized TV channel.

5

3. Device as claimed in claim 2, wherein the device comprise means for receiving server control information, in particular indicating that a further user is receiving the real time information from the user.

10 4. Device as claimed in claim 2, wherein the control means include sound control means for controlling sound to accompany the personalized TV channel, in particular selecting sound from a TV or radio station.

5. Device as claimed in claim 4, wherein the sound control means are arranged
15 for adding sound of a real time source from which source real time information is included in the personalized TV channel or mixing said sound with sound from a TV or radio station.

6. Device as claimed in claim 5, wherein the device has means for detecting the presence of sound provided by the capture unit, and wherein the sound control means are
20 arranged for said adding in dependence on said presence.

7. Device as claimed in claim 2, wherein the storage means are arranged for storing picture information and the generating means are arranged for including the picture information in the output signal.

25

8. Device as claimed in claim 2, wherein the control means include means for coupling to a remote control unit, which remote control unit has user control buttons for giving the user commands for controlling the contents of the personalized TV channel.

30 9. Server entity for use in the system of claim 1, which entity is connectable to a network for providing a personalized TV channel for at least one of a number of users, the entity comprising

- a network unit for receiving real time information, user parameters and user commands via the network and for transmitting the personalized TV channel to the user via the network,
- generation means for generating the personalized TV channel for said at least one user in response to the user parameters and user commands by selectively including in the personalized TV channel real time information from further users.

10. Entity as claimed in claim 9, wherein the generation means are arranged for maintaining status information, the status information for a user at least including one of the following: whether the capture unit is active; which other users are receiving the real time information from the user.

11. Method of managing the system of claim 1 for providing a personalized TV channel, the method comprising
- managing a server entity by providing user registration for users which are allowed to connect to the server entity via the device for providing a personalized TV channel to the user, and
 - generating the user parameters identifying the user for user registration and for storage in the device.

12. Method of providing a personalized TV channel for at least one of a number of users, the method comprising
- connecting to the users via a network,
 - receiving real time information, user parameters and user commands via the network,
 - generating the personalized TV channel for said at least one user in response to the user parameters and user commands by selectively including in the personalized TV channel real time information from further users, and
 - transmitting the personalized TV channel to the user via the network.

13. Computer program product for providing a personalized TV channel for at least one of a number of users, which program is operative to cause a processor to perform the method as claimed in claim 12.

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ABSTRACT:

A system provides a personalized TV channel for a user. All users provide visual information and are connected via a network (14) to a server (15). The server has a network unit (26) for receiving real time information, user parameters and user commands via the network and for transmitting the personalized TV channel to the user via the network.

5 Generation unit (27) in the server generates the personalized TV channel for the user in response to the user parameters and user commands by selectively including in the personalized TV channel real time information from further users. The user has a user device (10) that has an input unit (24) for receiving video information related to the user, in particular video information from a web cam. The device has a memory (25) for storing the

10 user parameters identifying the user, and a remote control unit (22) for receiving the user commands for controlling the contents of the personalized TV channel.

Figure 1

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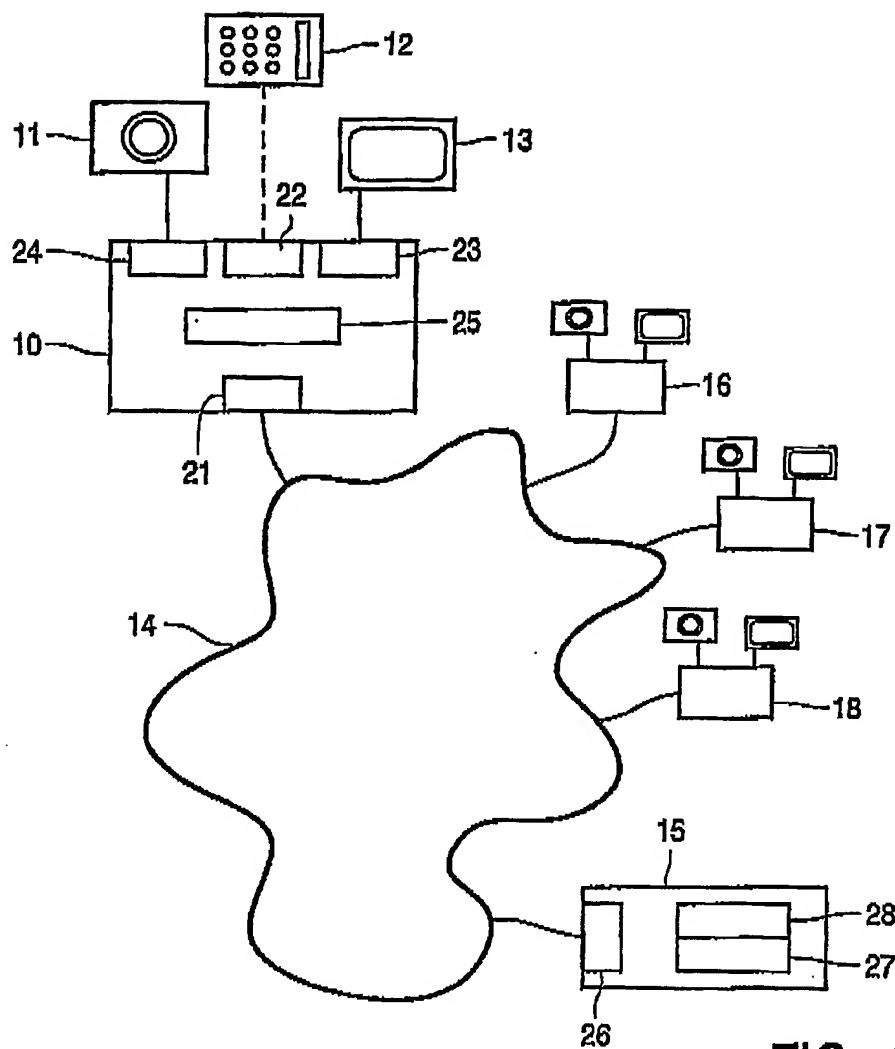


FIG. 1

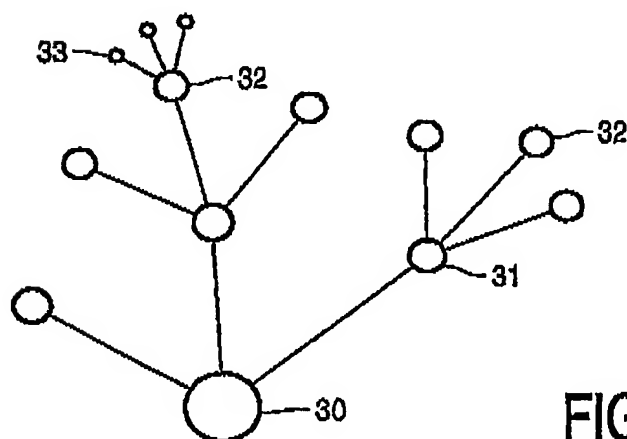


FIG. 2A

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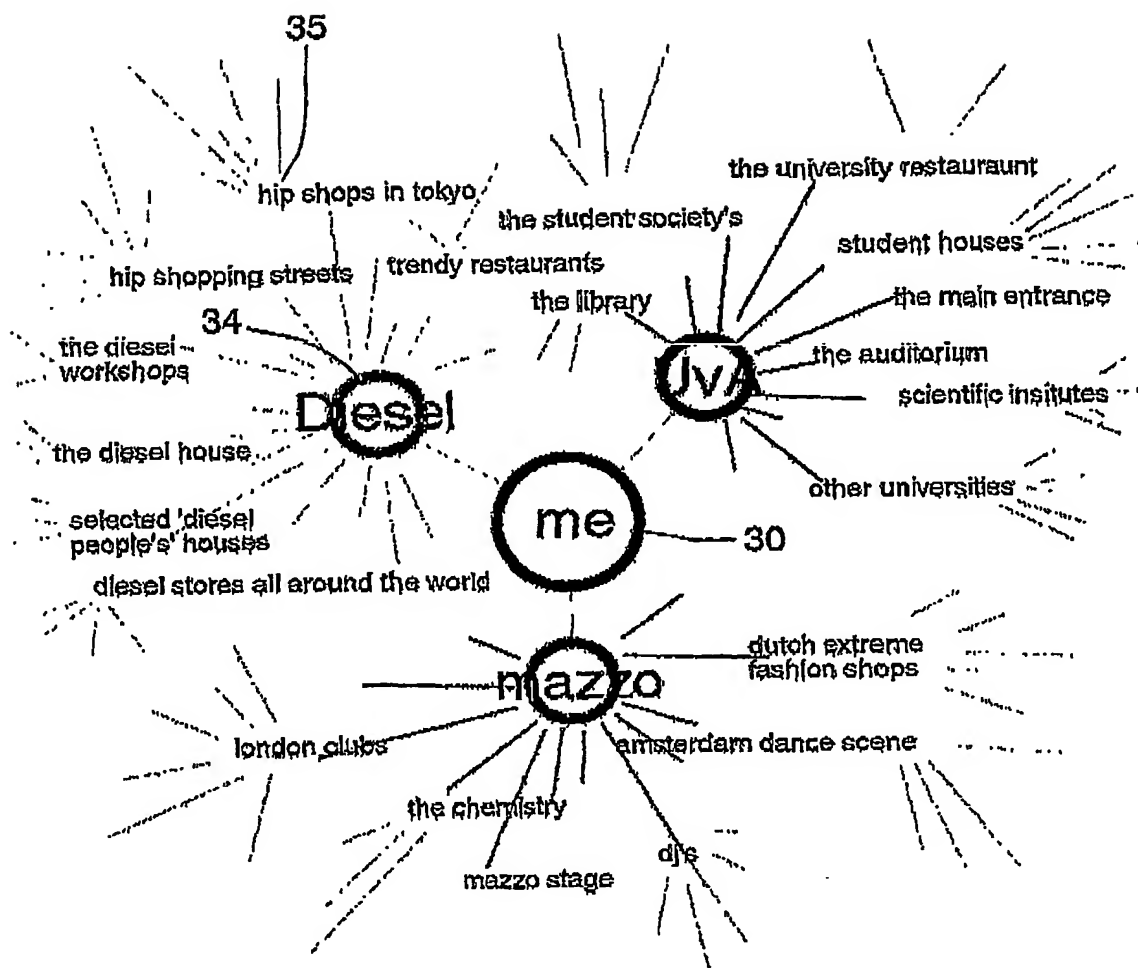


FIG.2B

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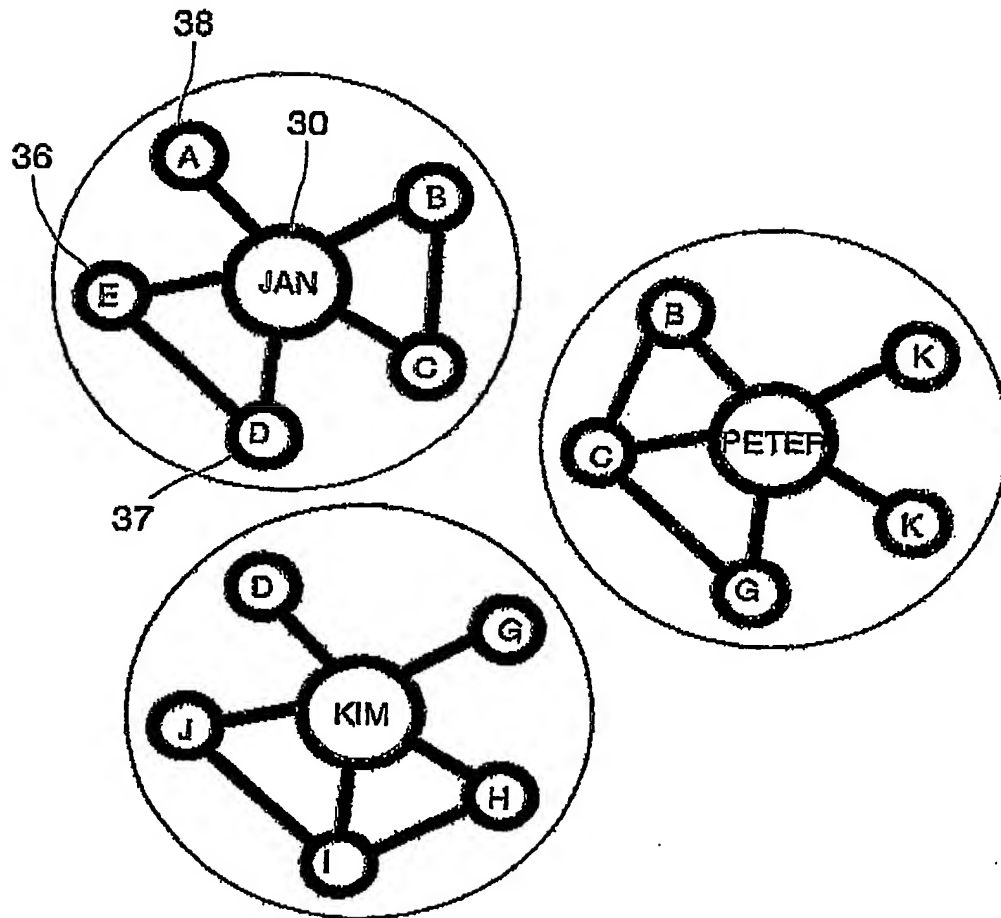


FIG.3

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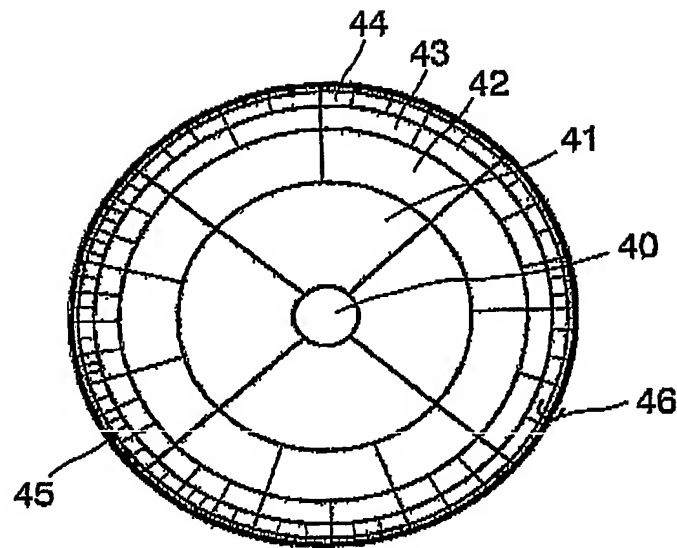


FIG. 4A

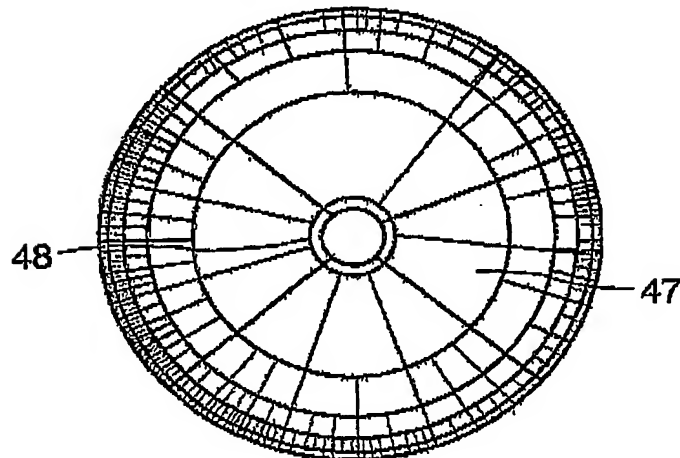


FIG. 4B

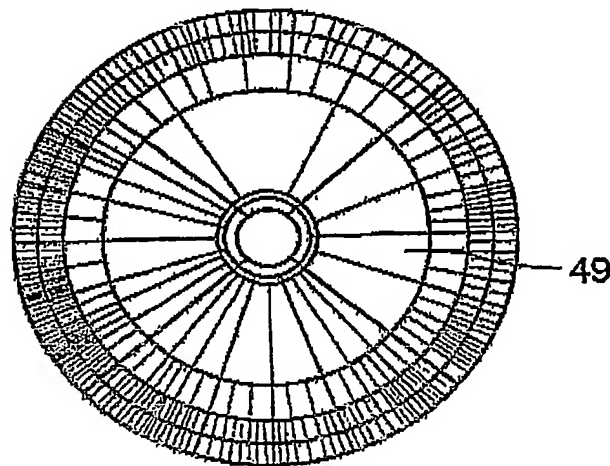


FIG. 4C

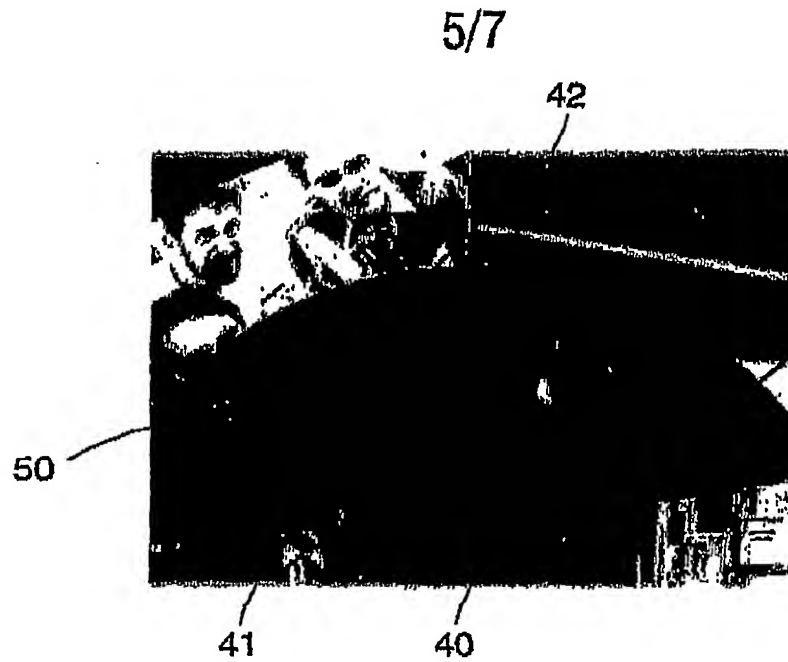


FIG. 5

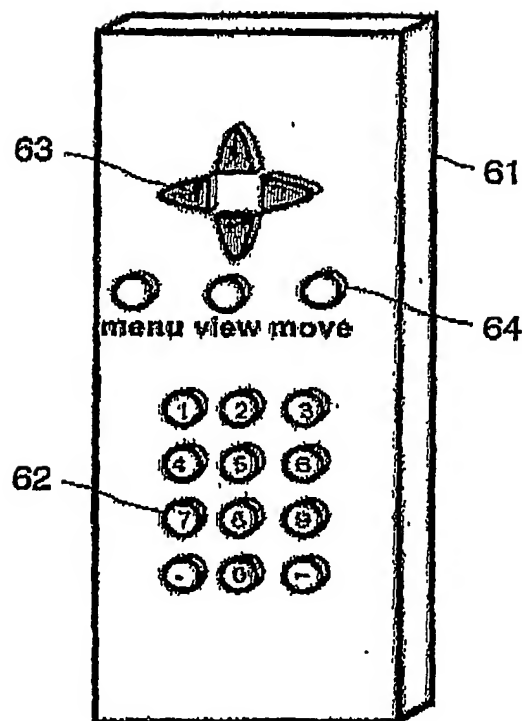


FIG. 6

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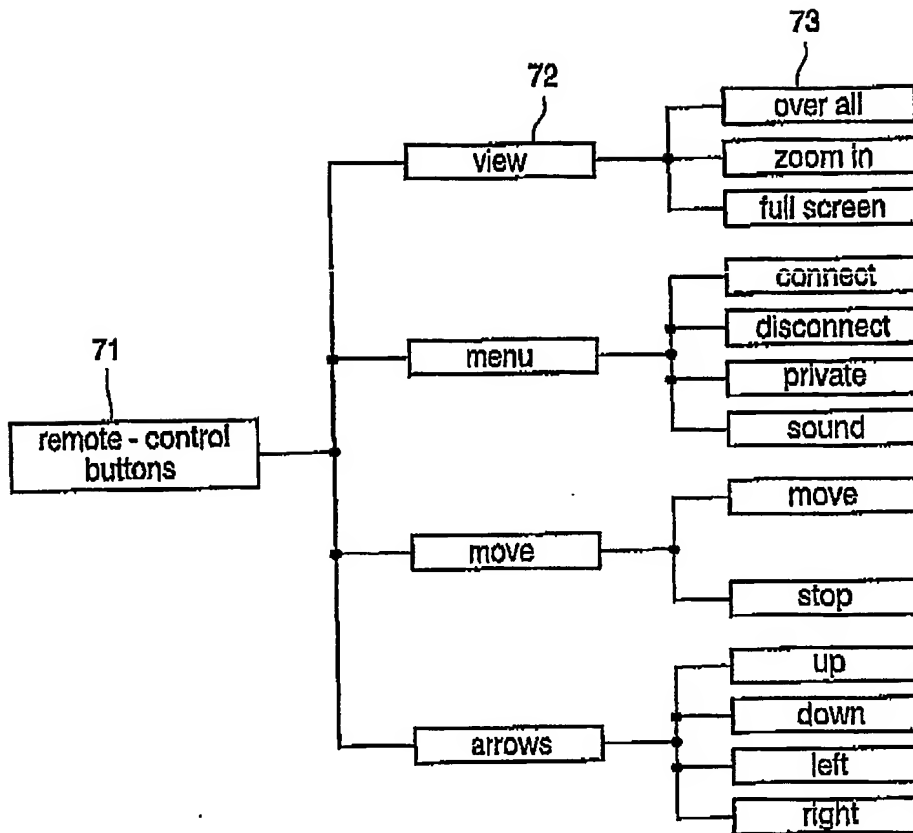


FIG. 7

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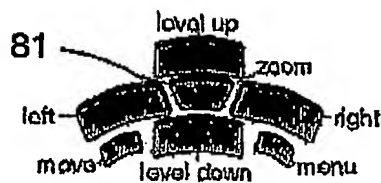


FIG. 8A

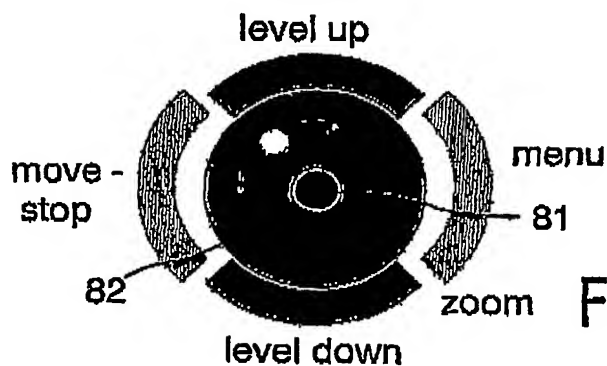


FIG. 8B

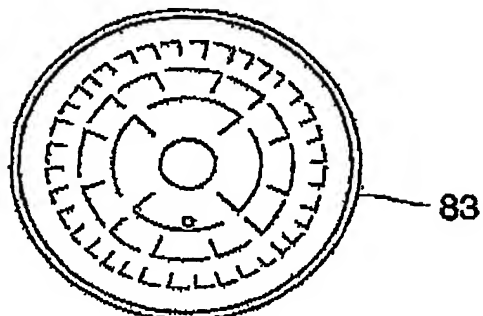


FIG. 8C

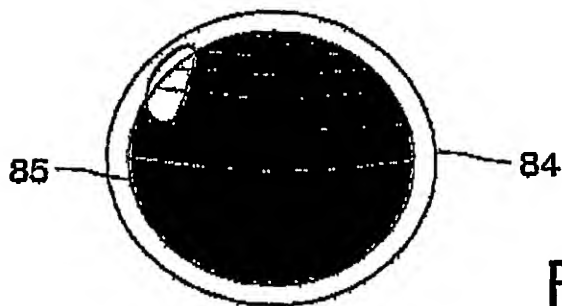


FIG. 8D

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